

L3 ANSWER 66 OF 108 CA COPYRIGHT 2005 ACS on STN

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TI Removal of heavy metals from incinerator ashes

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PA Japan

SO Jpn. Kokai Tokkyo Koho, 3 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM B09B003-00

ICS B09B003-00; C02F011-00; F23J001-00

CC 60-4 (Waste Treatment and Disposal)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 04061981	A2	19920227	JP 1990-168367	19900628
	JP 2522717	B2	19960807		
PRAI	JP 1990-168367		19900628		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 04061981	ICM	B09B003-00
		ICS B09B003-00; C02F011-00; F23J001-00

AB Incinerator ashes contg. heavy metals (e.g.; Cd, Pd, Cr and Hg) are treated by contacting with granular adsorbents prep'd. from an animal bone powder. Thus, a 60:40 wt. ratio of a cattle bone powder and clay was kneaded with water, pelletized and then calcined at .apprx.1000.degree. to form granular adsorbents, which were then contacted with an incinerator ash contg. Cd 4.8, Pb 2600, Cr 540, and Hg 0.1 ppm) at .apprx.1200.degree. in a rotary kiln. The treated ash contained Cd 0.01, Pb 0.1, Cr 0.05, and Hg 0.0005 mg/L.

ST incinerator ash heavy metal removal; adsorbent cattle powder
incinerator ash; cadmium removal adsorbent incinerator ash; lead
removal adsorbent incinerator ash; mercury
removal adsorbent incinerator ash

IT Cattle
(bone powder, granular adsorbents prep'n. from, for heavy metal removal
from incinerator ashes)

IT Adsorbents
(granular, from cattle bone powder, for heavy metal removal from
incinerator ashes)

IT Metals, miscellaneous
RL: REM (Removal or disposal); PROC (Process)
(heavy, removal of, from incinerator ashes, cattle bone powder-derived
granular adsorbents for)

IT Ashes (residues)
(incinerator, heavy metal removal from, adsorbents from, prep'n. of,
from animal bone powder)

IT 7439-92-1, Lead, miscellaneous 7439-97-6, Mercury,
miscellaneous 7440-43-9, Cadmium, miscellaneous 7440-47-3, Chromium,
miscellaneous

RL: REM (Removal or disposal); PROC (Process)
(removal of, from incinerator ashes, cattle bone
powder-derived granular adsorbents for)